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Notice of Allowability	Application No.	Applicant(s)	
	09/505,949	CHOW ET AL.	
	Examiner	Art Unit	
	Aimee J. Li	2183	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in 35) or other appropriate commu RIGHTS. This application is si	this application. If not included nication will be mailed in due co	urse. THIS
1. \boxtimes This communication is responsive to <u>RCE and Amendm</u>	ent received 31 August 2007.		•
2. X The allowed claim(s) is/are 1-2 and 4-17 renumbered as	s 1-2 and 3-16.		
3. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents hat 2. Certified copies of the priority documents hat 3. Copies of the certified copies of the priority international Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATINOTED BOOK Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be substituted in the substitute of the su	ave been received. ave been received in Application documents have been received E" of this communication to file NMENT of this application. bmitted. Note the attached EXA gives reason(s) why the oath or nust be submitted. erson's Patent Drawing Review er's Amendment / Comment or	n No I in this national stage application a reply complying with the require MINER'S AMENDMENT or NOT declaration is deficient. (PTO-948) attached in the Office action of the drawings in the front (not the base)	rements
 DEPOSIT OF and/or INFORMATION about the department of the department of	posit of BIOLOGICAL MATE	RIAL must be submitted. Not	e the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposi of Biological Material	6. ☐ Interview Su Paper No./N 7. ☑ Examiner's A	ormal Patent Application Immary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowa	ınce
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Application/Control Number: 09/505,949

Art Unit: 2183

EXAMINER'S AMENDMENT

Page 2

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- 2. Authorization for this examiner's amendment was given in a telephone interview with Joseph Lutz (Reg. No. 43,765) on 29 October 2007.
- 3. The application has been amended as follows:
 - a. Claim 1: A multi-mode processor comprising:
 - i. ...pre-processing hardware to bypass an arithmetic unit if a token exists in [[the]]an input and the mode identifier indicates [[the]]a second ISA mode...
 - ii. ...post-processing hardware to perform a token specific operation if [[a l]another token exists in the input and bypasses the arithmetic unit to produce an output.
 - b. Claim 5: The multi-mode processor of Claim 1 wherein the input may contain a token, wherein the floating-point registers are 82 bits wide...
 - c. Claim 6: The multi-mode processor of Claim [[3]] wherein...
 - d. Claim 9: A method in a multi-mode processor comprising:
 - i. ...when the mode the processor is in is a second word size ISA mode,
 bypassing [[the]]an arithmetic unit to post-processing hardware to
 perform a token specific operation, the second word size ISA design for a

second processor having [[the]]a second word size that defines the maximum number of bits that the second processor can handle as single unit...

Reasons for Allowance

- 4. The following is an examiner's statement of reasons for allowance:
- The claims, when taken in combination with each other, have not been taught, either individually or combination, by the prior art searched and found by the Examiner. Specifically, the independent claims now recite that the second ISA has a word size greater in bit length than the first ISA word size; there is a mode identifier and a token in the input that signal which ISA mode the processor is in; when a token exists in the input and the mode identifier indicates a second ISA mode, bypassing an arithmetic unit; and when a token exists in the input and the mode identifier indicates a first ISA mode, performing a token specific operation. This combination of limitation have not been taught by the prior art, either individually or combination with each other.
- 6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aimee J. Li whose telephone number is (571) 272-4169. The examiner can normally be reached on M-T 7:00am-4:30pm.

Application/Control Number: 09/505,949

Art Unit: 2183

8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Chan can be reached on (571) 272-4162. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Aimee J Li Examiner

Art Unit 2183

Since J. Li

Page 4

28 October 2007